

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 3630P02 Issue date: 7/31/2023 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form Substance name Product code Formula Other means of identification	<ul> <li>Substance</li> <li>3-Chloro-5-fluoro-4-iodoaniline</li> <li>3630-P-02</li> <li>C6H4CIFIN</li> <li>MFCD32066743</li> </ul>
1.2. Recommended use and restrictions	on use
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Supplier	
SynQuest Laboratories, Inc. Inc. P.O. Box 309 Alachua, FL, Alachua, 32615 United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com	<u>n</u>
1.4. Emergency telephone number	

Emergency number

: (844) 523-4086 (3E Company - Account 10069)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Acute toxicity (oral) Category 3 Skin corrosion/irritation Category 2	H301 H315	Toxic if swallowed Causes skin irritation
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation
Hazardous to the aquatic environment – Acute Hazard Category 2	H401	Toxic to aquatic life
Hazardous to the aquatic environment – Chronic Hazard Category 2 Full text of H statements : see section 16	H411	Toxic to aquatic life with long lasting effects

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)



: H301 - Toxic if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	H335 - May cause respiratory irritation
	H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS US)	: P261 - Avoid breathing dust, mist, spray.
	P264 - Wash skin thoroughly after handling
	P270 - Do not eat, drink or smoke when using this product.
	P271 - Use only outdoors or in a well-ventilated area.
	P273 - Avoid release to the environment.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P310 - If swallowed: Immediately call a poison center or doctor.
	P302+P352 - If on skin: Wash with plenty of soap and water
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P310 - Immediately call a POISON CENTER or doctor/ physician
	P321 - Specific treatment (see supplemental first aid instructions on this label)
	P330 - Rinse mouth.
	P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P362+P364 - Take off contaminated clothing and wash it before reuse.
	P391 - Collect spillage.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
	P405 - Store locked up.
	P501 - Dispose of contents/container to an approved waste disposal plant

### 2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

## SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%	GHS US classification
3-Chloro-5-fluoro-4-iodoaniline (Main constituent)	-	≤ 100	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

Full text of hazard classes and H-statements : see section 16

#### 3.2. Mixtures

Not applicable

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.
4.2. Most important symptoms and effe	cts (acute and delayed)
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2.2)

and/or in section 11.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing	media		
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.		
5.2. Specific hazards arising from the chemical			
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen chloride. Hydrogen iodide. Hydrogen fluoride. Nitrogen oxides.		
5.3. Special protective equipment and precautions for fire-fighters			
Firefighting instructions Protection during firefighting	<ul> <li>In case of fire: Evacuate area.</li> <li>Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".</li> </ul>		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective	equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up Other information	<ul> <li>Stop leak if safe to do so.</li> <li>Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.</li> <li>For disposal of solid materials or residues refer to section 13 : "Disposal considerations".</li> </ul>	
6.4. Reference to other sections		

No additional information available

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.	
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including a	ny incompatibilities	
Technical measures Storage conditions Incompatible materials	<ul> <li>Comply with applicable regulations.</li> <li>Keep container closed when not in use. Keep away from ignition sources. Keep contents under inert gas.</li> <li>Refer to Section 10 on Incompatible Materials.</li> </ul>	
Storage area	: Store in dry, cool, well-ventilated area. Light sensitive.	
SECTION 8: Exposure controls/persona	Il protection	
8.1. Control parameters		
3-Chloro-5-fluoro-4-iodoaniline		
No additional information available		
8.2. Appropriate engineering controls		
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.	
8.3. Individual protection measures/Persona	Il protective equipment	
Hand protection:		
protective gloves. 29 CFR 1910.138: Hand Protectio	n	
Eye protection:		
Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection		
Skin and body protection:		
Wear suitable protective clothing		
Respiratory protection:		
In case of inadequate ventilation wear respiratory pro	otection. 29 CFR 1910.134: Respiratory Protection	

#### Personal protective equipment symbol(s):



#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Dhyging state	:	Solid
Physical state	•	e e i i a
Color	:	No data available
Odor	:	No data available
Odor threshold	:	No data available
рН	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Molecular mass	:	271.46 g/mol
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

**10.2. Chemical stability** 

The product is stable at normal handling and storage conditions.

**10.3.** Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (dermal):Acute toxicity (inhalation):Skin corrosion/irritation:Serious eye damage/irritation:Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:STOT-single exposure:STOT-repeated exposure:Aspiration hazard:Viscosity, kinematic:	Toxic if swallowed. Not classified Not classified Causes skin irritation. Causes serious eye damage. Not classified Not classified Not classified Not classified May cause respiratory irritation. Not classified Not classified

ECTION 12: Ecological information
2.1. Toxicity
additional information available
2.2. Persistence and degradability
additional information available
2.3. Bioaccumulative potential
additional information available
2.4. Mobility in soil
additional information available
2.5. Other adverse effects
additional information available
ECTION 13: Disposal considerations

Torri Disposar metrious	
Waste treatment methods Product/Packaging disposal recommendations Additional information	<ul> <li>Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Recycle the material as far as possible.</li> </ul>

13.1 Disposal methods

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

according to Federal Register / Vol. 77, No. 58 / Monday,	
SECTION 14: Transport information	
14.1. UN number	
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: UN2811 : UN2811 : 2811 : 2811
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Toxic solids, organic, n.o.s.</li> <li>TOXIC SOLID, ORGANIC, N.O.S.</li> <li>TOXIC SOLID, ORGANIC, N.O.S.</li> <li>Toxic solid, organic, n.o.s.</li> </ul>
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT) Hazard labels (DOT)	: 6.1 : 6.1
<b>TDG</b> Transport hazard class(es) (TDG) Hazard labels (TDG)	: 6.1 : 6.1
IMDG Transport hazard class(es) (IMDG) Hazard labels (IMDG)	: 6.1 : 6.1
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	: 6.1 : 6.1
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: III : III : III : III

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

14.5. Environmental hazards			
Dangerous for the environment Marine pollutant	: Yes : Yes		
Other information	: No supplementary information available.		
14.6. Special precautions for user			
DOT UN-No.(DOT) DOT Special Provisions (49 CFR 172.102)	<ul> <li>: UN2811</li> <li>: IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).</li> <li>IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>		
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 153 : 213 : 240 : 100 kg		
DOT Quantity Limitations Cargo aircraft only (49	: 200 kg		
CFR 175.75) DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.		
TDG UN-No. (TDG) TDG Special Provisions	<ul> <li>: UN2811</li> <li>: 16 - 1) The technical name of the most dangerous substance related to the primary class must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(i)(A) of Part 3, Documentation. The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4, Dangerous Goods Safety Marks.</li> <li>2) subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical: a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act".</li> </ul>		
Explosive Limit and Limited Quantity Index	: 5 kg		

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Excepted quantities (TDG)	: E1
Passenger Carrying Road Vehicle or Passenger	: 100 kg
Carrying Railway Vehicle Index	
Emergency Response Guide (ERG) Number	: 154
IMDG	
Special provision (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDC)	: B3
Tank instructions (IMDG)	: D3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
	: S-A - SPILLAGE SCHEDULE Alia - GENERAL FIRE SCHEDULE : S-A - SPILLAGE SCHEDULE Alia - TOXIC SUBSTANCES
EmS-No. (Spillage)	
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Toxic if swallowed, by skin contact or by inhalation.
ΙΑΤΑ	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y645
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 670
PCA max net quantity (IATA)	: 100kg
CAO packing instructions (IATA)	: 677
CAO max net quantity (IATA)	: 200kg
Special provision (IATA)	: A3, A5
ERG code (IATA)	: 6L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:		
3-Chloro-5-fluoro-4-iodoaniline	CAS-No.	100%
15.2. International regulations		
CANADA		
No additional information available		
EU-Regulations		
No additional information available		
National regulations		
No additional information available		

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 16: Other information**

Full text of H-phrases	
H301	Toxic if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	<ul> <li>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul>
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Safety Data Sheet (SDS), USA

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